

WHAT IS CLAIMED IS;

1. A Restorative and grafting material for hard tissue defects using animal teeth, which is prepared by the steps of collecting animal teeth, removing soft tissues, sterilization, incinerating at high temperature, pulverization and re-sterilization, and especially is characterized by having even powder form.
2. The restorative and grafting material for hard tissue defects using animal teeth according to claim 1, wherein the material is prepared by mixing the powder of the above restorative and grafting material for hard tissue defects with material selected from consisting of medical gypsum, concentrated platelets, dental porcelain and acrylic resin to attach hard tissue defect area.
3. The restorative and grafting material for hard tissue defects using animal teeth according to claim 2, wherein the material is prepared by mixing the powder of the restorative and grafting material for hard tissue defects with medical gypsum at the ratio of 1:1 - 2:1.

4. The restorative and grafting material for hard tissue defects using animal teeth according to claim 2, wherein the powder of the restorative and grafting material for hard tissue defects contains 5-15 cc of concentrated platelets regardless of the amount of the powder.
5. The restorative and grafting material for hard tissue defects using animal teeth according to claim 2, wherein the powder of the restorative and grafting material for hard tissue defects is mixed with dental porcelain or acrylic resin at the ratio of 1:1 - 1:4 or 1:1 - 4:1.
6. A fabrication method of the restorative and grafting material for hard tissue defects using animal teeth comprising the following steps:
- 1) Collecting animal teeth from slaughter house;
 - 2) Removing soft tissues by washing the teeth with ultrasonicator after dipping the collected teeth in hydrogen peroxide for a while and drying thereof, sterilizing thereof with ethyl alcohol and bleaching thereof;
 - 3) Incinerating thereof at high temperature;

- 4) Pulverizing the incinerated teeth;
 - 5) Removing impurities and bleaching the teeth powder by treating the pulverized teeth powder at high temperature; and
 - 5 6) Sterilizing the teeth powder with ethylene gas.
7. The fabrication method of the restorative and grafting material for hard tissue defects using animal teeth according to claim 6, wherein the removing soft tissues and bleaching step includes the following steps:
- 10 1) Dipping the collected animal teeth in hydrogen peroxide for 2-3 days;
 - 2) Sterilizing thereof with ethyl alcohol; and
 - 15 3) Washing the sterilized animal teeth with an ultrasonicator in 20 - 60 Hz for 1 hour.
8. The fabrication method of the restorative and grafting material for hard tissue defects using animal teeth according to claim 6, wherein the incinerating is achieved by treating the animal teeth at 1000-1500°C for at least 90-180 minutes.
- 20 9. The fabrication method of the restorative and grafting material for hard tissue defects using
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animal teeth according to claim 6, wherein the pulverizing is achieved by grinding the animal teeth and then filtering the animal teeth powder with 70 μm mesh gauge, 90 μm mesh gauge, and 120 μm mesh gauge.

10. The fabrication method of the restorative and grafting material for hard tissue defects using animal teeth according to claim 6, wherein the removing impurities and bleaching are achieved by treating the teeth powder at 1200°C for 1 hour.

11. The fabrication method of the restorative and grafting material for hard tissue defects using animal teeth according to claim 8, wherein the sterilizing is achieved by treating the teeth powder with ethylene oxide gas for 11-13 hours at the concentration of 1.0-3.0 kg/cm².